

Res. Asst. Ümmügülsüm POLAT KORKUNÇ

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, Turkey 2018 - Continues

Postgraduate, Yildiz Technical University, Fen Edebiyat Fakültesi, Kimya/Biyokimya, Turkey 2015 - 2018

Undergraduate, Balikesir University, Fen Edebiyat Fakültesi, Kimya, Turkey 2009 - 2013

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Postgraduate, FLORESANS ÖMÜR DAĞILIMI KULLANILARAK POLIAKRİLİK ASİT- TRİPSİN KONJUGATI VE SERBEST TRİPSİNİN PROTEOLİTİK AKTİVİTESİNDEKİ DEĞİŞİMLERİN İNCELENMESİ, Yıldız Teknik Üniversitesi, Kimya/Biyokimya, 2017

Academic Titles / Tasks

Research Assistant, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 2017 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **In vitro anticancer, antioxidant and chelating activities of natural organosulfur compounds originated from Türkiye: an investigation on breast and colorectal cancer cells**
Polat Korkunç Ü., Çalık H., Polat Köse L., Çakır R., Karakuş E.
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.55, no.1, pp.287-298, 2025 (SCI-Expanded)
- II. **Sensitive and accurate determination of oil-soluble and water-soluble organosulfur compounds in garlic matrix using reversed phase-high performance liquid chromatography,**
Polat Korkunç Ü., Zaman B. T., Bakırdere S., Karakuş E.
TURKISH JOURNAL OF CHEMISTRY, no.2, pp.281-288, 2024 (SCI-Expanded)
- III. **Analysis of hydrolytic differences of free and "polyacrylic acid (PAAc)-conjugated trypsin and chymotrypsin" by using fluorescence lifetime distributions**
Polat Ü., Özyiğit İ. E., Karakuş E.
PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY, vol.50, pp.717-722, 2020 (SCI-Expanded)

Papers Published in Refereed Scientific Meetings

- I. **Cancer Healing Effects of Natural Organosulfur Compounds Originating in Turkey**
Polat Korkunç Ü., Çalık H., Çakır R., Karakuş E.
7th International Conference on Advances in Natural& Applied Science, Antalya, Turkey, 16 - 20 April 2024, pp.40-41
- II. **DETERMINATION OF OIL SOLUBLE AND WATER SOLUBLE ORGANOSULPHUR COMPOUNDS IN GARLIC MATRIX BY USING ACCURATE/SENSITIVE REVERSED PHASE HPLC**
Polat Korkunç Ü., Zaman B. T., Bakırdere S., Karakuş E.
4th International Environmental Chemistry Congress, Antalya, Turkey, 31 October - 02 November 2022, pp.59-60
- III. **Determination of total carbohydrate and total protein of Kastamonu Taşköprü garlic bulb**
Polat Korkunç Ü., Karakuş E.
International Biotechnology Congress, İstanbul, Turkey, 9 - 11 September 2021, pp.149-150
- IV. **Çinko Oksit Nanorod ve Hyaluronik Asit Temelli Glukoz Biyosensörü Hazırlanması**
Tokgöz D., Polat Ü., KARAKUŞ E.
8. Ulusal Kimya Öğrenci Kongresi, İstanbul, Turkey, 16 May 2017, pp.19
- V. **Tripsin Ve Kimotripsin'in Poliakrilik Asit Konjugatlarının PM-BSA Kompleksi Floresans Ömür Dağılımı Üzerine Etkileri**
Polat Ü., Özyiğit İ. E., KARAKUŞ E.
8. Ulusal Kimya Öğrenci Kongresi, İstanbul, Turkey, 16 May 2017, pp.11
- VI. **Effects of PAA-Chymotrypsin Conjugate on Fluorescence Lifetime Distributions of PM-BSA Complex**
Amer S., Polat Ü., Özyiğit İ. E., KARAKUŞ E.
International Conference on Advances in Science and Arts Istanbul-2017, İstanbul, Turkey, 29 March 2017, pp.34
- VII. **Fluorescence Lifetime Distribution Changes of "N-(1-Pyrenyl) Maleimide (PM)-Bovine Serum Albumin (BSA); PM-BSA" Complex by the Proteolytic Effects of Free And Polyacrylic Acid (PAA)-Conjugated Trypsin**
Polat Ü., Özyiğit İ. E., KARAKUŞ E.
International Conference on Advances in Science and Arts Istanbul-2017, İstanbul, Turkey, 29 March 2017, pp.12

Supported Projects

KARAKUŞ E., ÇAKIR KOÇ R., POLAT KORKUNÇ Ü., Çalık H., Project Supported by Higher Education Institutions, Ülkemiz Kaynaklı Doğal Organosülfür Bileşiklerinin Kansere İyileştirici Etkileri, 2021 - 2023

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